12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Wednesday, July 15, 2015

Terry Rice Columbia West Engineering, Inc. 11917 NE 95th Street Vancouver, WA 98682

RE: Storedahl-Evraz / 1033Q

Enclosed are the results of analyses for work order <u>A5G0329</u>, which was received by the laboratory on 7/13/2015 at 2:50:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <a href="mailto:DAuvil@apex-labs.com">DAuvil@apex-labs.com</a>, or by phone at 503-718-2323.

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Columbia West Engineering, Inc. Project: Storedahl-Evraz

11917 NE 95th StreetProject Number:1033QReported:Vancouver, WA 98682Project Manager:Terry Rice07/15/15 12:36

### ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMATI	ON	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BB-S Comp	A5G0329-01	Soil	07/13/15 08:40	07/13/15 14:50
BB-C Comp	A5G0329-02	Soil	07/13/15 08:50	07/13/15 14:50
BB-N Comp	A5G0329-03	Soil	07/13/15 09:00	07/13/15 14:50
BB-Total Comp	A5G0329-04	Soil	07/13/15 09:11	07/13/15 14:50

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#### ANALYTICAL SAMPLE RESULTS

		Tot	tal Metals by	EPA 6020 (ICI	PMS)			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
BB-S Comp (A5G0329-01)			Matrix: Soil					
Batch: 5070314								
Arsenic	4.29		1.02	mg/kg dry	10	07/13/15 19:11	EPA 6020A	
BB-C Comp (A5G0329-02)			Matrix: Soil					
Batch: 5070314								
Arsenic	4.43		1.04	mg/kg dry	10	07/13/15 19:29	EPA 6020A	
BB-N Comp (A5G0329-03)			Matrix: Soil					
Batch: 5070314								
Arsenic	4.46		1.10	mg/kg dry	10	07/13/15 19:34	EPA 6020A	
BB-Total Comp (A5G0329-04)			Matrix: Soil					
Batch: 5070314								
Arsenic	3.91		1.10	mg/kg dry	10	07/13/15 19:38	EPA 6020A	
Cadmium	ND		0.220	"	"	"	"	
Copper	25.2		2.20	"	"	"	"	
Manganese	323		1.10	"	"	"	"	
Zinc	28.9		4.40	"	"	"	"	

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#### ANALYTICAL SAMPLE RESULTS

			Percent l	Dry Weight				
			Reporting					
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
BB-S Comp (A5G0329-01)			Matrix: Soil	Ва	atch: 507029	99		
% Solids	94.7		1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	
BB-C Comp (A5G0329-02)			Matrix: Soil	Ва	atch: 507029	99		
% Solids	95.8		1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	
BB-N Comp (A5G0329-03)			Matrix: Soil	Ва	atch: 507029	99		
% Solids	96.0		1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	
BB-Total Comp (A5G0329-04)			Matrix: Soil	Ва	atch: 507029	99		
% Solids	95.6		1.00	% by Weight	1	07/14/15 09:14	EPA 8000C	

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### QUALITY CONTROL (QC) SAMPLE RESULTS

	_		Total	Metals by E	PA 602	20 (ICPMS	)		_			_
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070314 - EPA 305	51A						Soi	I				
Blank (5070314-BLK1)				Prepa	ared: 07/1	3/15 15:35	Analyzed:	07/13/15	19:01			
EPA 6020A												
Arsenic	ND		1.00	mg/kg wet	10							
Cadmium	ND		0.200	"	"							
Manganese	ND		1.00	"	"							
Zinc	ND		4.00	"	"							
Blank (5070314-BLK2)				Prepa	ared: 07/1	3/15 15:35	Analyzed:	07/14/15	15:52			
EPA 6020A												
Copper	ND		2.00	mg/kg wet	10							Q-16
LCS (5070314-BS1)				Prepa	ared: 07/1	3/15 15:35	Analyzed:	07/13/15	19:06			
EPA 6020A												
Arsenic	48.6		1.00	mg/kg wet	10	50.0		97	80-120%			
Cadmium	50.2		0.200	"	"	"		100	"			
Copper	52.6		2.00	"	"	"		105	"			
Manganese	49.6		1.00	"	"	"		99	"			
Zinc	52.0		4.00	"	"	"		104	"			
Duplicate (5070314-DUP1)				Prepa	ared: 07/1	3/15 15:35	Analyzed:	07/13/15	19:43			
QC Source Sample: BB-Total Con	mp (A5G0329-0	04)										
EPA 6020A												
Arsenic	5.16		1.12	mg/kg dry	10		3.91			28	40%	
Cadmium	ND		0.224	"	"		0.121			***	40%	
Copper	26.0		2.24	"	"		25.2			3	40%	
Manganese	354		1.12	"	"		323			9	40%	
Zinc	34.7		4.49	"	"		28.9			18	40%	
Matrix Spike (5070314-MS1)				Prepa	ared: 07/1	3/15 15:35	Analyzed:	07/13/15	19:48			
QC Source Sample: BB-Total Cor	mp (A5G0329-0	04)										
Arsenic	59.1		1.09	mg/kg dry	10	54.3	3.91	102	75-125%			
Cadmium	53.3		0.217	mg/kg dry	"	"	0.121	98	"			
Copper	79.4		2.17	"	"	"	25.2	100	"			
Сорры	12.4		4.1/				43.4	100				

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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### QUALITY CONTROL (QC) SAMPLE RESULTS

	·		Total	Metals by	EPA 60	20 (ICPMS	)	·				
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070314 - EPA 3051	A						Soil					
Matrix Spike (5070314-MS1)				Prep	ared: 07/	13/15 15:35	Analyzed:	07/13/15 19	:48			
QC Source Sample: BB-Total Comp	(A5G0329-0	14)										
Manganese	381		1.09	mg/kg dry	"	"	323	108	"			
Zinc	87.4		4.34	"	"	"	28.9	108	"			

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### QUALITY CONTROL (QC) SAMPLE RESULTS

			•	Percent	Dry We	ight			•		•	
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070299 - Total Sol	ids (Dry W	eight)					Soi	I				
<b>Duplicate (5070299-DUP3)</b>				Prep	oared: 07/	13/15 15:29	Analyzed:	07/14/15 09	:14			
QC Source Sample: BB-N Comp ( EPA 8000C	(A5G0329-03)											
% Solids	96.2		1.00	% by Weight	1		96.0			0.2	10%	
Duplicate (5070299-DUP4)				Prep	oared: 07/	13/15 15:30	Analyzed:	07/14/15 09	:14			
QC Source Sample: BB-Total Com	np (A5G0329-0	14)										
EPA 8000C												
% Solids	95.6		1.00	% by Weight	1		95.6			0	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Columbia West Engineering, Inc. Project: Storedahl-Evraz

EPA 8000C

11917 NE 95th StreetProject Number:1033QReported:Vancouver, WA 98682Project Manager:Terry Rice07/15/15 12:36

### SAMPLE PREPARATION INFORMATION

			Total Metals by EF	PA 6020 (ICPMS)			
Prep: EPA 3051A	No. :	M.d. 1	0 11	D 1	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Lab Number	Matrix	Method	Sampled	Prepared	mitiai/1 mai	mittat/1 mai	1 actor
Batch: 5070314	a :1	TD1 (000)	07/10/17 00 10	05/40/45 45 05	0.546 (50.5		
A5G0329-01	Soil	EPA 6020A	07/13/15 08:40	07/13/15 15:35	0.516g/50mL	0.5g/50mL	0.97
A5G0329-02	Soil	EPA 6020A	07/13/15 08:50	07/13/15 15:35	0.504g/50mL	0.5g/50mL	0.99
A5G0329-03	Soil	EPA 6020A	07/13/15 09:00	07/13/15 15:35	0.475g/50mL	0.5g/50mL	1.05
A5G0329-04	Soil	EPA 6020A	07/13/15 09:11	07/13/15 15:35	0.475g/50mL	0.5g/50mL	1.05
			Percent Dr	y Weight			
Prep: Total Solids	(Dry Weight	)			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 5070299							
A5G0329-01	Soil	EPA 8000C	07/13/15 08:40	07/13/15 15:29	1N/A/1N/A	1N/A/1N/A	NA
A5G0329-02	Soil	EPA 8000C	07/13/15 08:50	07/13/15 15:29	1N/A/1N/A	1N/A/1N/A	NA

07/13/15 15:29

07/13/15 09:11

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A5G0329-04

Soil

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1N/A/1N/A

NA

1N/A/1N/A

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#### **Notes and Definitions**

#### Qualifiers:

Q-16 Reanalysis of an original Batch QC sample.

#### Notes and Conventions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.

Batch QC

Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

\*\*\* Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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		•													NNA	YSIS	ANALYSIS REQUEST	EST							
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